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   Internet search engines and comparison shopping have recently begun implementing a paid
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   placement fee. This bias generates placement revenues but creates a disutility to users, thus
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1 On the Natural Selection of Market Choice   77%
Aviv Bergman , Moshe Tennenholtz
Autonomous Agents and Multi-Agent Systems December 2002
Volume 5 Issue 4

> An evolutionary approach to the problem of economic mechanism choice is
> presented. It demonstrates the power that a single participant has on the
> choice of a preferred market mechanism. A population of sellers, each with
> one of two possible economic mechanisms, facing potential buyers, is
> presented as a test model. It is shown that if two auctions, such as first-
> and second-price auctions, are to attract an identical number of buyers,
> although under the model assumptions their expected revenu ...

2 On Negotiations and Deal Making in Electronic Markets   77%
Carrie Beam , Arie Segev , Martin Bichler , Ramayya Krishnan
Information Systems Frontiers October 1999
Volume 1 Issue 3

> Negotiation has traditionally been an important element in all types of
> commerce. As electronic commerce systems become generally available on
> the Internet, there is a need to support negotiation in the context of deal
> making. However, as in the physical world, the type of negotiation
> mechanism required is context dependent. In particular, we distinguish
> between the support required in the context of single deal and support
> required in coordinating negotiations across multiple deals. A framew ...

3 Software reuse and competition: Consumer preferences in a software component market   77%
F. Javier Lerch , Nick V. Flor , Mark Fichman , Se-Joon Hong
Annals of Software Engineering January 1998

Volume 5

Research on software reuse has traditionally focused on reuse among employees within the same organization. In contrast, our research investigates consumer preferences in a software component market with multiple producers and consumers of software components. We propose that empirically studying competition in software component markets is crucial to discovering success factors for improving software reuse. To facilitate such research, we have developed an experimental ...

4 Semantic Web Services: Semantic web support for the business-to-business e-commerce   77%
lifecycle
David Trastour , Claudio Bartolini , Chris Preist
Proceedings of the eleventh international conference on World Wide Web May 2002
> If an e-services approach to electronic commerce is to become widespread, standardisation of ontologies, message content and message protocols will be necessary. In this paper, we present a lifecycle of a business-to-business e-commerce interaction, and show how the Semantic Web can support a service description language that can be used throughout this lifecycle. By using DAML, we develop a service description language sufficiently expressive and flexible to be used not only in advertisements, ...

5 Personalizing web sites for mobile users   77%
Corin R. Anderson , Pedro Domingos , Daniel S. Weld
Proceedings of the tenth international conference on World Wide Web April 2001

6 A dynamic mechanism for time-constrained trading   77%
Samuel P. M. Choi , Jiming Liu
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> The market mechanism design is important for both conventional and electronic commerce as it affects the fairness and efficiency of trading. In this paper, we propose a new market mechanism for time- constrained trading. Our mechanism mimics the traditional brokering system, where buyers and sellers meet together and negotiate through an electronic marketplace. At each time step, agents are paired up for negotiating a deal. We consider that buyer and seller agents are associated with a time ...

7 A market-driven approach to teaching software components engineering   77%
Nick V. Flor , F. Javier Lerch , Se-Joon Hong
Annals of Software Engineering April 1999
Volume 6 Issue 1-4

The emergence of software component standards and tools for creating software components is leading to an increasing number of software component developers. Traditional software engineering education, however, emphasizes methods for developing large software packages. It is not clear whether such methods are appropriate for developing components. New techniques may be needed to teach the skills necessary for component development. We identify two skills software develo ...

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1 A general-purpose compression scheme for large collections   77%
ACM Transactions on Information Systems (TOIS) July 2002
Volume 20 Issue 3
> Compression of large collections can lead to improvements in retrieval times by offsetting the
> CPU decompression costs with the cost of seeking and retrieving data from disk. We propose a
> semistatic phrase-based approach called xray that builds a model offline using sample training
> data extracted from a collection, and then compresses the entire collection online in a single
> pass. The particular benefits of xray are that it can be used in applications where individual
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Proceedings of the eleventh international conference on World Wide Web May 2002
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> reducing user-based revenues. We formulate the search engine design problem as a tradeoff
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> depends on the relative benefits (to provid ...

3 Efficient web browsing on handheld devices using page and form summarization   77%
ACM Transactions on Information Systems (TOIS) January 2002
Volume 20 Issue 1
> We present a design and implementation for displaying and manipulating HTML pages on small
> handheld devices such as personal digital assistants (PDAs), or cellular phones. We introduce
> methods for summarizing parts of Web pages and HTML forms. Each Web page is broken into
> text units that can each be hidden, partially displayed, made fully visible, or summarized. A
> variety of methods are introduced that summarize the text units. In addition, HTML forms are
> also summarized by displaying just the t ...

4 Scalable high-speed prefix matching   77%
Marcel Waldvogel , George Varghese , Jon Turner , Bernhard Plattner
ACM Transactions on Computer Systems (TOCS) November 2001

Volume 19 Issue 4
Finding the longest matching prefix from a database of keywords is an old problem with a
number of applications, ranging from dictionary searches to advanced memory management to
computational geometry. But perhaps today's most frequent best matching prefix lookups occur
in the Internet, when forwarding packets from router to router. Internet traffic volume and link
speeds are rapidly increasing; at the same time, a growing user population is increasing the size
of routing tables against which p ...

5 Using hardware performance monitors to isolate memory bottlenecks   77%
Bryan R. Buck , Jeffrey K. Hollingsworth
Proceedings of the 2000 ACM/IEEE conference on Supercomputing (CDROM) November 2000
In this paper, we present and evaluate two techniques that use different styles of hardware
support to provide data structure specific processor cache information. In one approach,
hardware performance counter overflow interrupts are used to sample cache misses. In the
other, cache misses within regions of memory are counted to perform an n-way search for the
areas in which the most misses are occurring. We present a simulation-based study and
comparison of the two techniques. We find that ...

6 CASDAL: CASSM's DAta Language   77%
Stanley Y. W. Su , Ahmed Emam
ACM Transactions on Database Systems (TODS) March 1978
Volume 3 Issue 1
CASDAL is a high level data language designed and implemented for the database machine
CASSM. The language is used for the manipulation and maintenance of a database using an
unnormalized (hierarchically structured) relational data model. It also has facilities to define,
modify, and maintain the data model definition. The uniqueness of CASDAL lies in its power to
specify complex operations in terms of several new language constructs and its concepts of
tagging or marking tuples and of matc ...

7 EMP — A Database-Driven Electronic Market Place for Business-to-Business   77%
Commerce on the Internet
Susanne Boll , Andreas Grüner , Armin Haaf , Wolfgang Klas
Distributed and Parallel Databases April 1999
Volume 7 Issue 2

Electronic commerce systems for business-to-business commerce on the
Internet are still in their infancy. The realization of Internet electronic
markets for business-to-business following a n-suppliers: m-customers
scenario is still unattainable with todays solutions. Comprehensive
Internet electronic commerce systems should provide for easy access to
and handling of the system, help to overcome differences in time of
business, location, language between suppliers and customers, an ...

8 Transportable Information Agents   77%
Daniela Rus , Robert Gray , David Kotz
Journal of Intelligent Information Systems November 1997
Volume 9 Issue 3

Transportable agents are autonomous programs. They can move through
a heterogeneous network of computers migrating from host to host under
their own control. They can sense the state of the network, monitor

software conditions, and interact with other agents or resources. The network-sensing tools allow our agents to adapt to the network configuration and to navigate under the control of reactive plans. In this paper we describe the design and implementation of a transportable-agent sy ...

9 Navigation issues in hypertext: documenting complex hierarchies with HTML frames   77%
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1 A laboratory study of consumers' preferences and purchasing behavior with regards to   77%
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Se-Joon Hong , F. Javier Lerch
ACM SIGMIS Database August 2002 ·
Volume 33 Issue 3
> Component-based software development is widely regarded as a promising approach to improving productivity and quality. However, progress in component-based software development has been slower than expected. A possible explanation for this slow progress is that there are not enough software components that can satisfy users (consumers). From this perspective, the purpose of this paper is to increase our knowledge about consumers of software components and to understand what aspects of software c ...

2 Competitive market-based allocation of consumer attention space   77%
Sander M. Bohte , Enrico Gerding , Han La Poutré
Proceedings of the 3rd ACM conference on Electronic Commerce October 2001
> The amount of attention space available for recommending suppliers to consumers on e-commerce sites is typically limited. We present a competitive distributed recommendation mechanism based on adaptive software agents for efficiently allocating the "consumer attention space", or banners. In our approach, each agent bids in an auction for the momentary attention of each consumer. Successive auctions allow agents to rapidly adapt their bidding strategy to focus on consumers interested in their off ...

3 Media Production: Towards Creative Collaboration Using Communication Networks   77%
Ellen Baker , John Geirland , Tom Fisher , Annmarie Chandler
Computer Supported Cooperative Work October 1999
Volume 8 Issue 4

> To examine the diffusion of remote collaboration technologies within the media production industries, a series of case studies was recently conducted with early adopters of advanced electronic networks in Sydney, Los Angeles and London. The studies assessed: 1) user reactions to these collaboration technologies and types of activities being supported and 2)

factors influencing their adoption decisions. Interviews conducted also provided early indications of the conditions likely to faci ...

4 A market-driven approach to teaching software components engineering   77%
Nick V. Flor , F. Javier Lerch , Se-Joon Hong
Annals of Software Engineering April 1999
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The emergence of software component standards and tools for creating software components is leading to an increasing number of software component developers. Traditional software engineering education, however, emphasizes methods for developing large software packages. It is not clear whether such methods are appropriate for developing components. New techniques may be needed to teach the skills necessary for component development. We identify two skills software develo ...

5 Organizing multicast receivers deterministically by packet-loss correlation   77%
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2001 , Tampa, Florida, USA

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Authors
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  Enrico Gerding CWI, Centre for Mathematics and Computer Science, Amsterdam, The Netherlands
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The amount of attention space available for recommending suppliers to consumers on e-commerce sites is typically limited. We present a competitive distributed recommendation mechanism based on adaptive software agents for efficiently allocating the "consumer attention space", or banners. In our approach, each agent bids in an auction for the momentary attention of each consumer. Successive auctions allow agents to rapidly adapt their bidding strategy to focus on consumers interested in their offerings. We demonstrate the feasibility of our system by an evolutionary simulation, and reflect on the advantages of this distributed market-based approach.

↑ REFERENCES

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2 S.H.Clearwater,editor.Market based Control of Distributed Systems .World Scienti .c Press,Singapore., 1995.

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